

PORTABLE POWER SUPPLY WITH SAFETY SWITCH

ABSTRACT

A portable electric power supply with a main contactor relay connected in
5 electrical series with a manual safety switch and voltage sensing relay contactor
between the neutral conductor and a power conductor of the power supply. A voltage
sensing relay detects the voltages in the power supply and turns on the voltage sensing
relay contactor when the voltages reach a minimum value. The safety switch is wired
in parallel with a latching contactor. The main contactor relay activates a main power
10 contactor and the latching contactor when the voltage sensing relay contactor and one
or both of the safety switch and latching contactor are activated, and deactivates the
main power contactor and latching contactor when the voltage sensing relay contactor
is deactivated. When activated, the main power contactor connects power outlets to the
neutral conductor and power conductors.